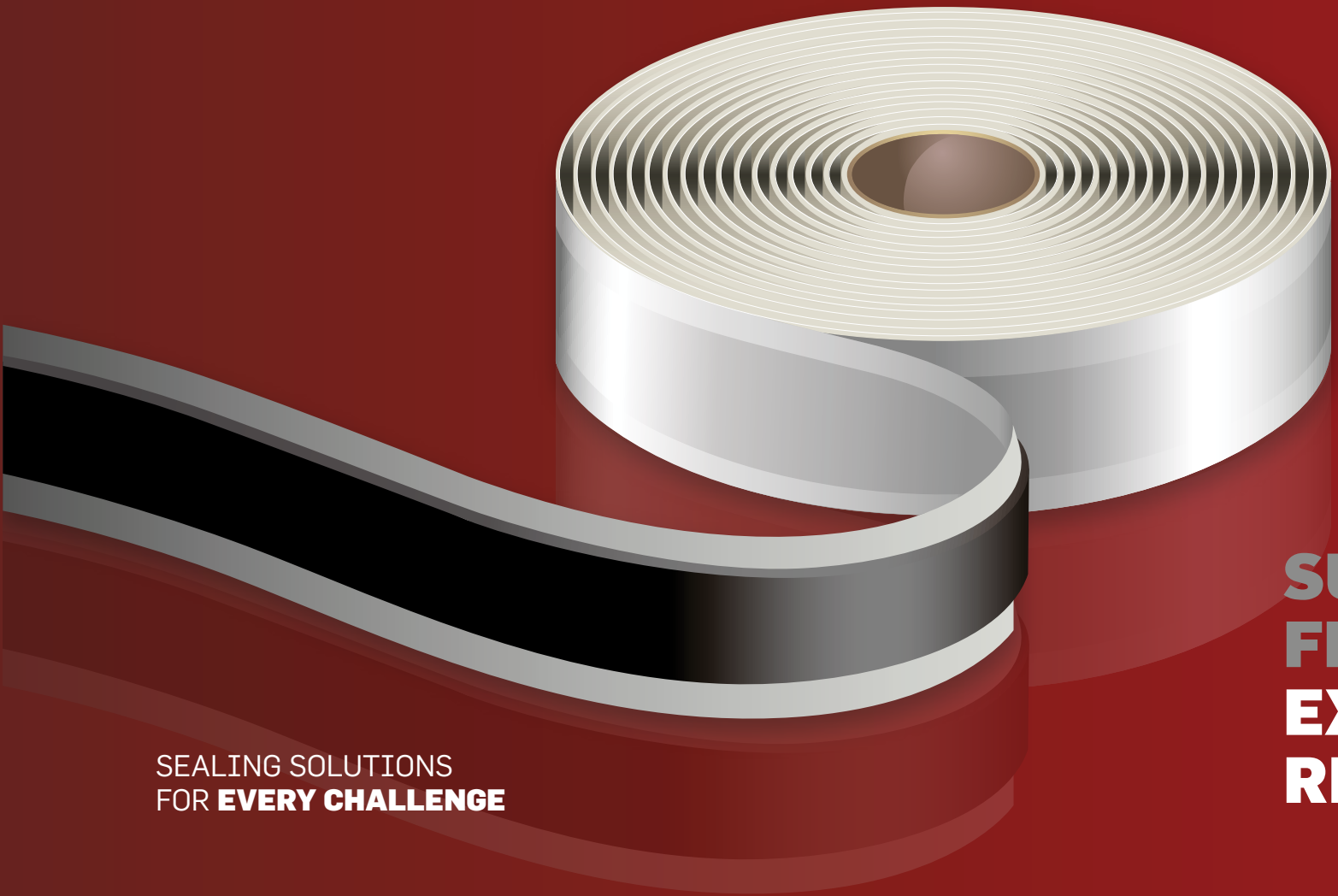
CENTROID
Polymer Technologies

BUTYL TAPE



SUPERIOR FLEXIBILITY, EXCEPTIONAL RESULTS

SEALING SOLUTIONS
FOR **EVERY CHALLENGE**

4

CENTROID POLYMER TECHNOLOGIES, TRUSTED EXPERT IN ELASTOMER'S & ENGINEERING PLASTICS

INDEX

Our Company

01. The Company 08
02. Our Chemistry 09
03. Certificate of approvals 10
04. Where Are We Located 11
05. Use of Butyle Tapes 12
06. Industry Standards 13

What Is Butyl Sealant ?.

07. What Is Butyl Sealant ? 14
08. Butyl General Characteristics 15
09. Butyl General Characteristics 16

Production & Extrution

10. Butyl Production And Extrution 19
11. Heat Resistance 20
12. Melt Index MVI / MFI 21
13. Penetration 22
14. Cohesion-Adhesion 23
15. Measure of Tackiness 24
16. Ring and Bal 25

INDEX

Our Products

17 **Insulating Self-amalgamating Mastic Tape Black** 28
- Application in Cable Joints Kit 29
- Features 30
- Technical Characteristics 31

18 **Anti Tracking Sealing Mastic Red** 32
- Technical Characteristics 33

19 **Butyl Mastic Tape Tele communication Weatherproofing** 34
- Technical Characteristics 36

20 **Stress Control Mastic** 38
- Application in Cable Joints Kit 39
- Technical Characteristics 40

21 **Butyl Tape for Roofing, Walls, Façades, and Cladding** 42
- Technical Data 44

22 **Butyl Tapes for Water Tanks & Metal Grain Bins** 46
- Application 47
- Features 48
- Technical Data 48

23 **Vaccum Bagging Sealant Tape** 50

24 **Sealant Tape - High Temperature** 52

25 **Sealant Tape - Low Temperature** 54
- Highlights 55

26 **Butyl Tape for Automotive & Caravan Motor-Home Products** 56
- Field of application 57
- Advantages 58

27 **Butyl Tape for Automotive& Caravan Motor-Home Products** 60
- Application Fields 60
- Technical Data 61

28 **Butyl Tape For HVAC & Refregiration** 62
- Highlights & Advantages 63

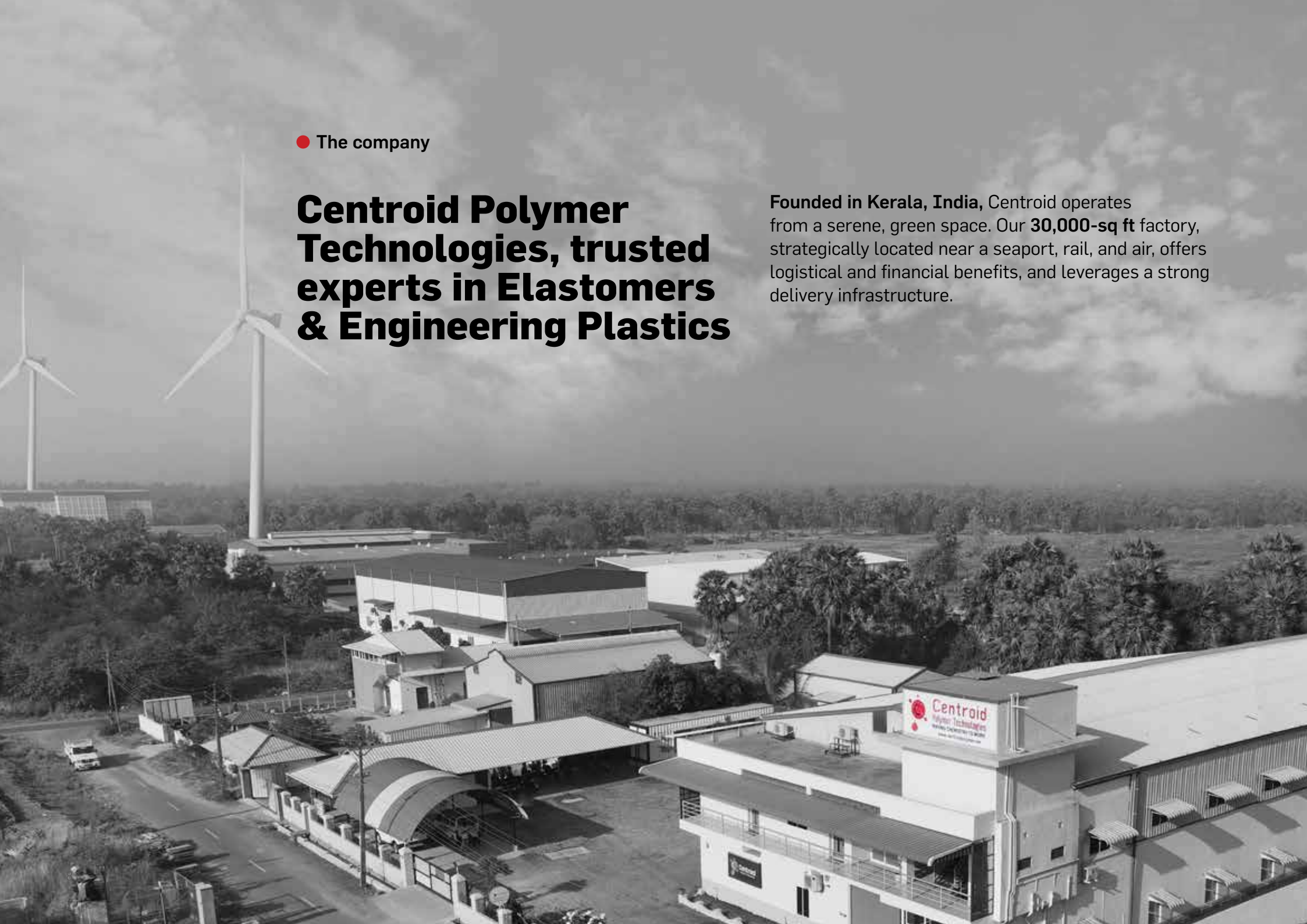
29 **Butyl tape for pipe wrap** 64
- Product Description 64
- Implementation 64
- Highlights 65
- Technical Data 66

30 **Bedding Deck for Boats & Ships** 67
- Butyl Sealant Tape: A Marine Essential 67
- Features 67
- For a waterproof joint 68

The company

Centroid Polymer Technologies, trusted experts in Elastomers & Engineering Plastics

Founded in Kerala, India, Centroid operates from a serene, green space. Our **30,000-sq ft** factory, strategically located near a seaport, rail, and air, offers logistical and financial benefits, and leverages a strong delivery infrastructure.



Our chemistry

Engineering excellence for your toughest Challenges

Leading experts in high-quality elastomers & engineering plastics. We handle the entire process, ensuring the perfect solution for your most challenging applications

Formulation to fabrication: Precision in every step

Specializing in silicone elastomers and PTFE. We offer comprehensive engineering solutions, from formulation to fabrication. No matter the size or scale of your project.

Certificate Of Approvals

CERTIFICATE
TÜV AUSTRIA
Management system as per ISO 45001:2018
CENTROID POLYMER TECHNOLOGIES
P-32(4), (5), Pearl Road, KINFRA IT Park, Kanjikode East P.O. , Palakkad - 678 621, Kerala, India
Manufacture and Supply of Rubber Seals, Profiles, Tubes, Hoses, Adhesive Tapes & PTFE Components
IAF

Safety

ZERTIFIKAT ◆ CERTIFICATE ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT
CERTIFICATE
The Certification Body of TÜV SÜD South Asia Private Limited certifies that
CENTROID POLYMER TECHNOLOGIES
P-32(4),(5), Pearl Road, KINFRA IT Park, Kanjikode East P.O, PALAKKAD KERALA – 678621, India
has implemented Quality Management System in accordance with ISO 9001:2015
for the scope of
Manufacture & Supply of Rubber Profiles, Tubes, Seals, Hoses, Adhesive Tapes and PTFE Components
The certificate is valid from 2023-02-14 until 2025-09-16
Certificate Registration No. 99 100 20260
Date of Initial certification: 2019-09-17
Issue Date: 2023-02-14 Rev. 00
IAF

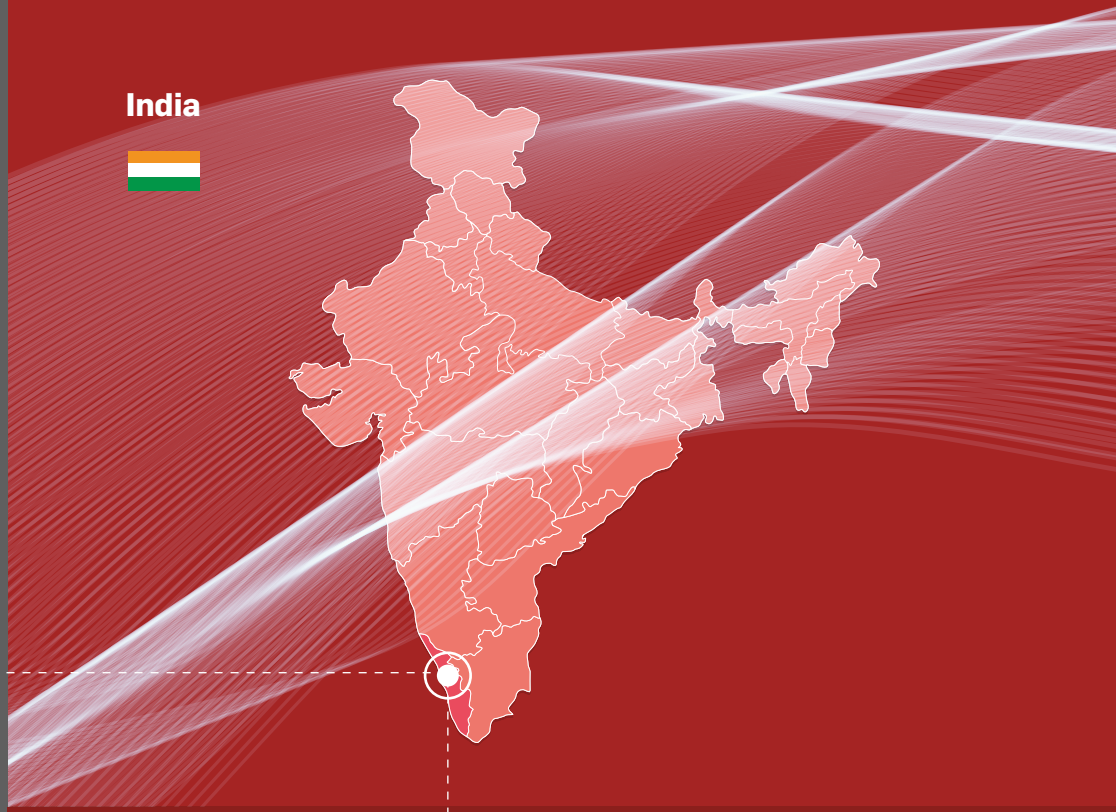
Quality

ZERTIFIKAT ◆ CERTIFICATE ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT
CERTIFICATE
The Certification Body of TÜV SÜD South Asia Private Limited certifies that
CENTROID POLYMER TECHNOLOGIES
P-32(4),(5), Pearl Road, KINFRA IT Park, Kanjikode East P.O, PALAKKAD, KERALA – 678621, India
has implemented Environmental Management System in accordance with ISO 14001:2015
for the scope of
Manufacture & Supply of Rubber Profiles, Tubes, Seals, Hoses, Adhesive Tapes and PTFE Components
The certificate is valid from 2023-02-14 until 2026-02-13
Certificate Registration No. 99 104 01517
Date of Initial certification: 2023-02-14
Issue Date: 2023-02-14 Rev. 00
IAF

Environment

OUR LOCATION

India



Kerala

CENTROID POLYMER TECHNOLOGIES

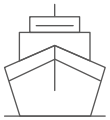
Palakkad

- Coimbatore International Airport - **45 km**
- Kanjikode **5.9 km**
- Cochin International Airport - **123 km**
- Kochi Port **161 km**

SHARED SUCCESS IN EVERY INDUSTRY WE SERVE

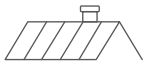
ELECTRICAL

Butyl tape : Superior waterproofing for low-voltage cable connections. Our electrical-grade version offers exceptional electrical insulation.



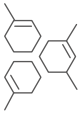
MARINE

Butyl sealant tape is vital for marine vessels. Applied to seams, joints, and gaps, it creates a watertight seal, protecting boats and ships from water damage.



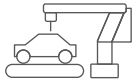
ROOFING

Butyl tape seals roofing and cladding joints. It's ideal for side and end lap joints. For large corrugated sheets, use the bead section designed for end lap profiles.



COMPOSITES

Vacuum bagging creates high-quality composites by compressing resin- saturated laminates under a vacuum. Centroid Polymer Technologies offers sealant tapes for successful vacuum bagging, regardless of cure temperature.

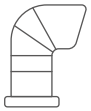


AUTOMOTIVE, BUS, & TRAILERS

Butyl tape seals it all in the automotive world: sunroofs, doors, lights, caravans, buses, and trailers. It creates weather proof barriers and seals gaps, ensuring durability and performance.

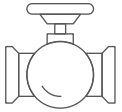
WATER TANKS & GRAIN BINS

Water Tank Butyl Tape is a non-toxic, ever-tacky, waterproof sealant for flange joints, approved for drinking water contact, and effective in protecting grain bins from leaks.



DUCTS AND VENTS

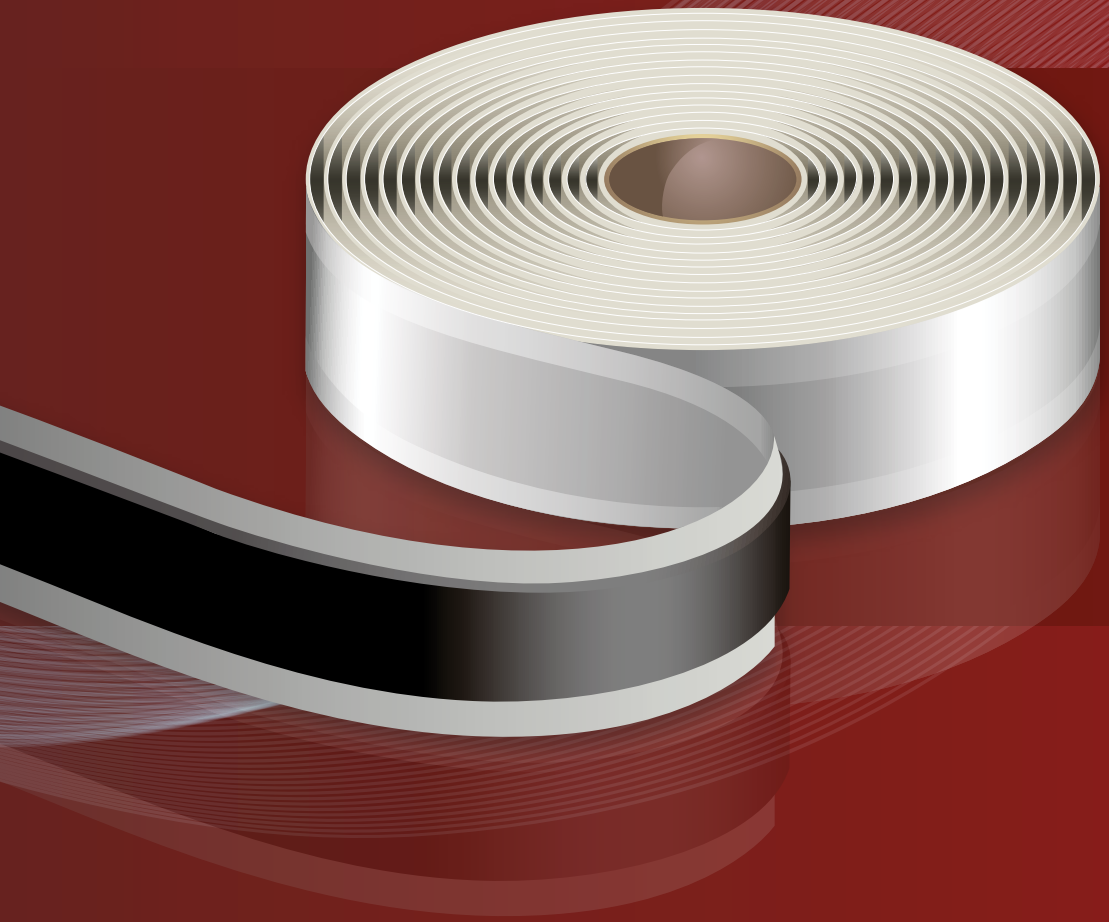
Butyl tape is the go-to for HVAC duct sealing. It creates air, dust, and watertight barriers around joints and seams, outperforming other sealing methods in the heating and ventilation market.



PIPELINE

Butyl tape is ideal for underground pipelines. Its resilience, flexibility, and moisture-resistance ensure a strong, long-lasting seal, even in harsh conditions.

WE ADHERE TO THE LATEST INDUSTRY STANDARDS



WHAT IS BUTYL SEALANT ?

Butyl sealants, though plastic, are flexible rubber-based sealants for indoor/outdoor use.

BUTYL GENERAL CHARACTERISTICS

Non-reactive (permanent plastic)

Self-healing effect

Long-term resistance

Good adhesion to almost all substrates (incl. PE, PP & EPDM).

Good ageing & weather resistance.

Good resistance against water, moisture, & aqueous solutions (pH 5–9).

Caoutchouc sealants for interior & exterior application

Permanently tacky

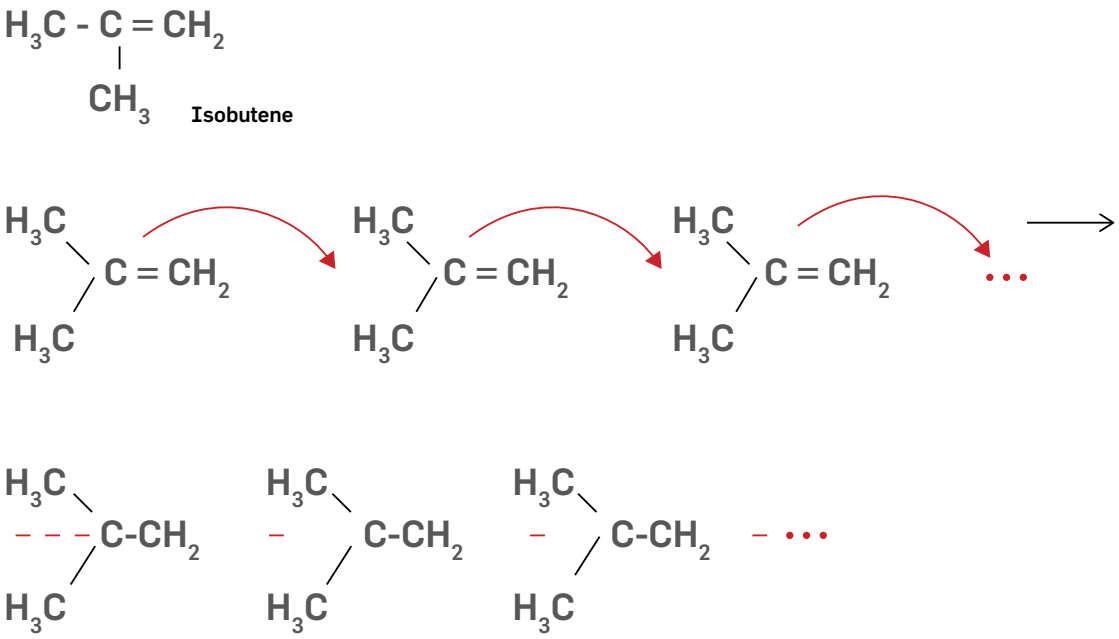
Good temperature resistance -30 oC to 120 oC.

Minimal surface preparation.

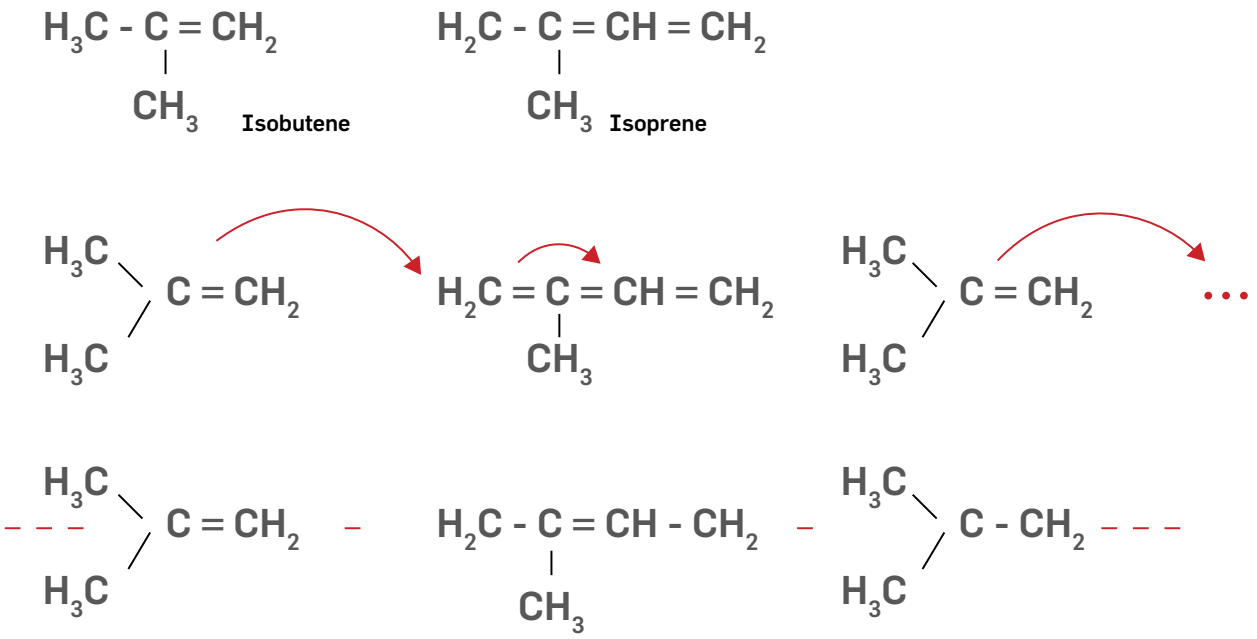
Water vapour tightness

Environmentally friendly in production, application & disposal.

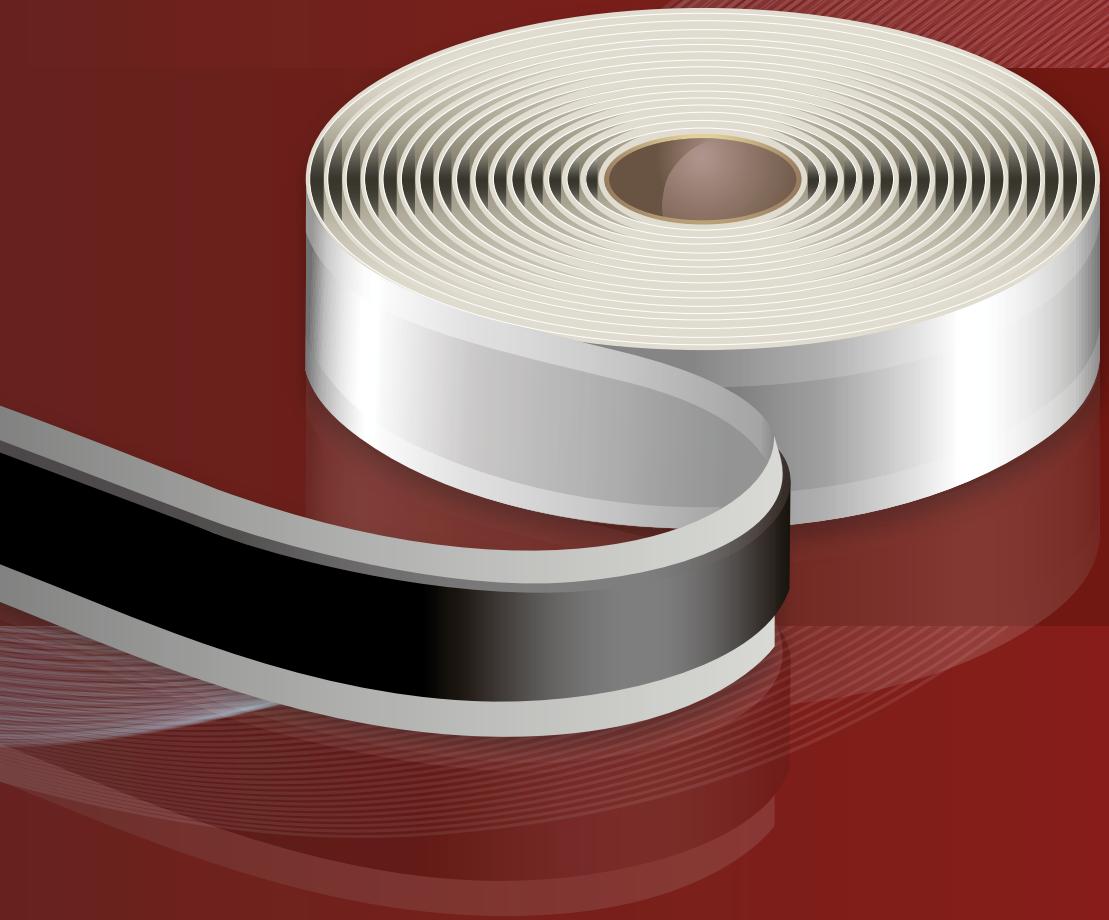
Butyl General Characteristics



Butyl General Characteristics



Isobutene - Isoprene - Rubber (IIR)



BUTYL PRODUCTION & EXTRUTION

BUTYL PRODUCTION & EXTRUTION

Z-BLADE MIXER

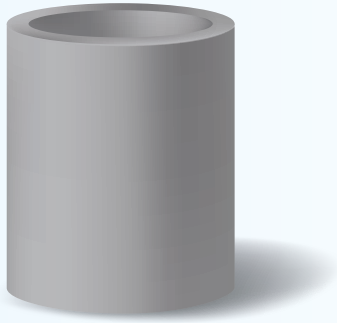
Single-screw extruders are preferred to create these products due to their simplicity and lower cost. Butyl tapes are extruded directly onto silicone-coated paper or fixed polyethylene liners for easy application.

HEAT RESISTANCE

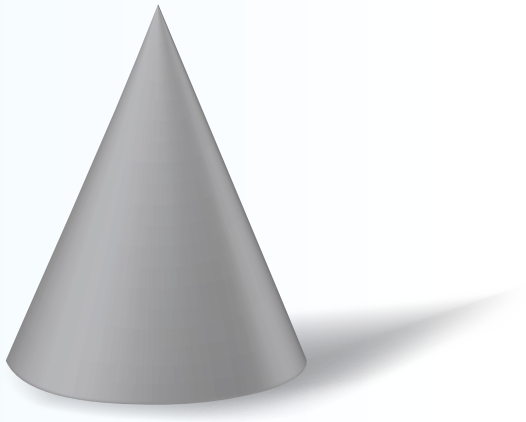
Specimen

INTERNAL TEST

For optimal storage, heat the product (without external load) to 60-120°C in an oven.



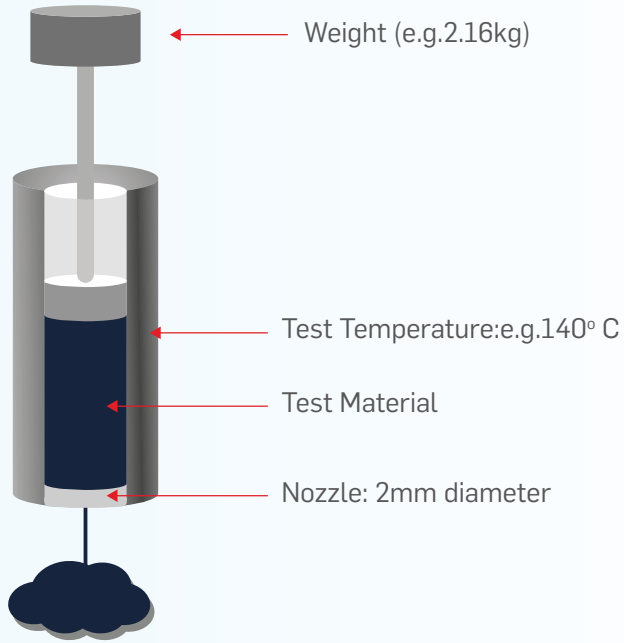
Cylinder



Cone

MELT INDEX MVI / MFI
(DIN EN ISO 1133 - 1)

Measurement of the flow ability at high temperatures

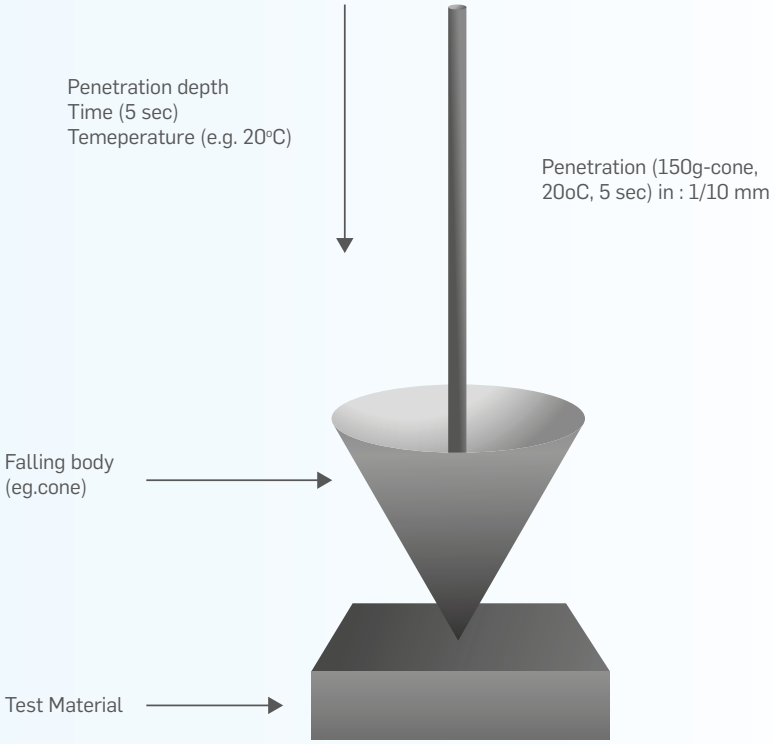


Quantity Pressed out
MVI (Melt Volume Index) in : ml/10 min
MFI (Melt Flow Index) in : 9/10 min

M = 2.16 kg
Way = 1 (mm)
Time = t(sec)

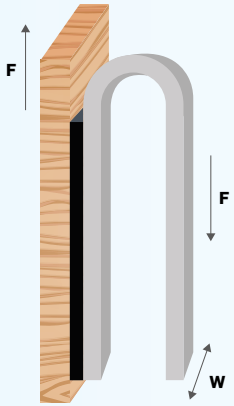
PENETRATION (DIN 51580)

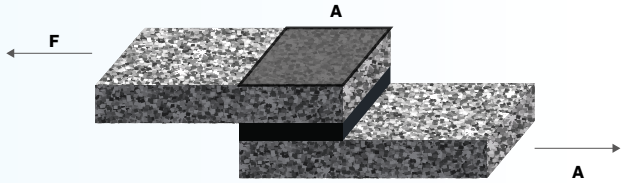
Measure of the hardness at room temperature:
depth of impact into the test material by falling body.



COHESION - ADHESION
(DIN EN ISO 8510 - 2)

Measure of the inner strength of a material.

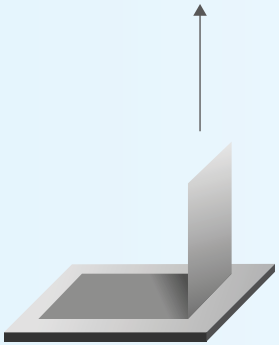




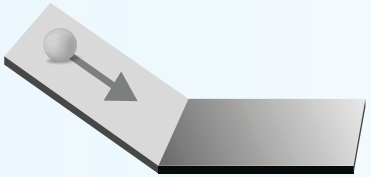
PeelTest = Force/Width
= F/w(N/mm) ~0, 3 -> 4 N/mm

Tensile Shear Test = Force / Bonded area
= F / A (N/mm^2) ~ 0,05 - 0,1 N/mm^2

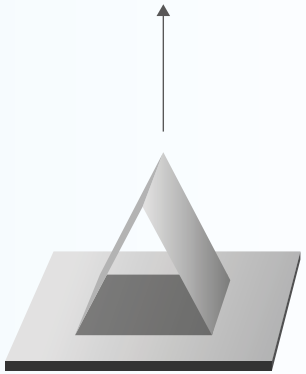
MEASURE OF TACKINESS



Peel- Test

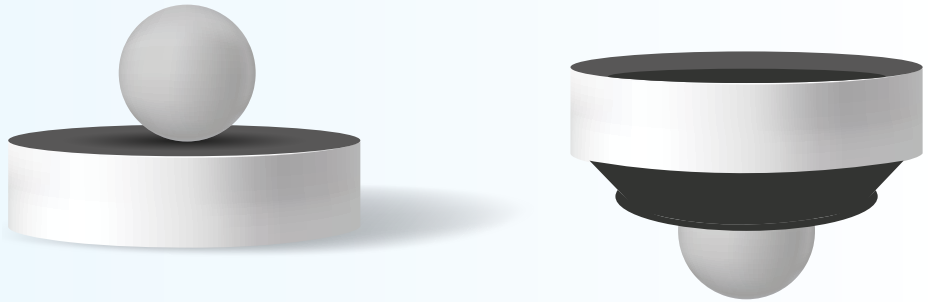


Rolling Ball-Test



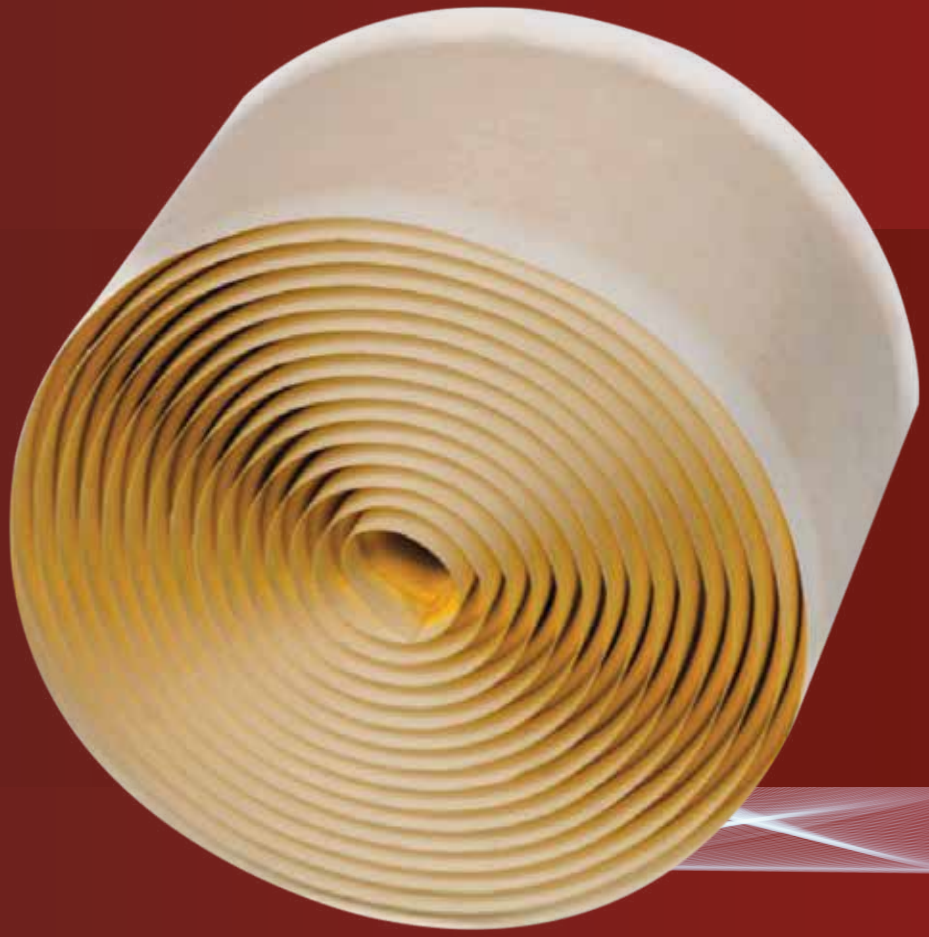
Loop-Test

RING AND BALL
(DIN EN 1238)



Measurement of the softening point

Start	Ball is placed on the material
Heating phase	5°C/min im Glycerin-Bad
End	Ball has sunk through the material

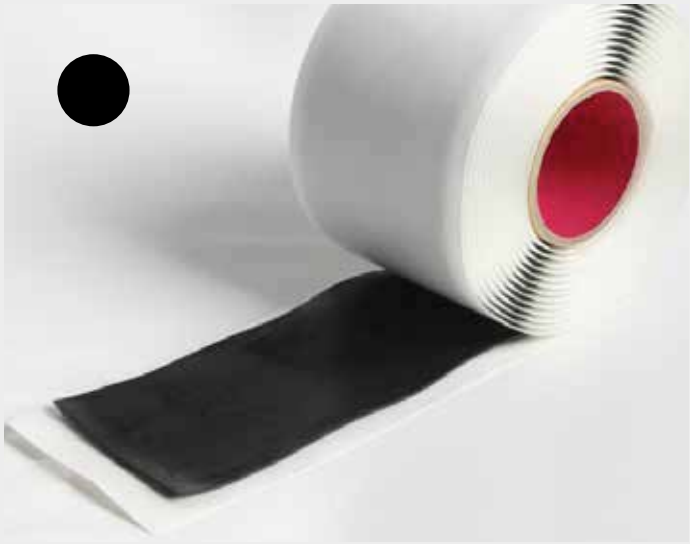


OUR PRODUCTS

BLACK INSULATING SELF-AMALGAMATING MASTIC TAPE

Product Code	CENFUSE BIM0101

01

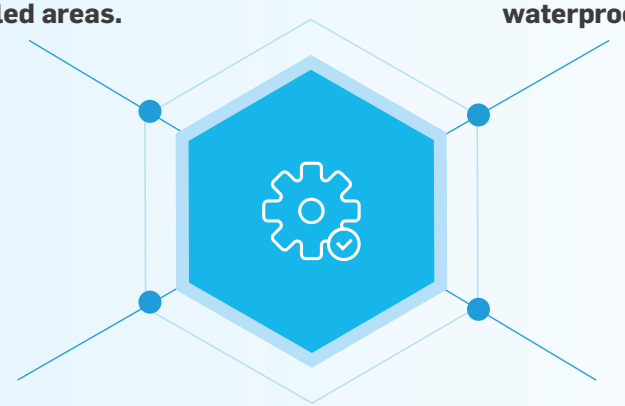


Butyl Black Insulating Mastic offers triple protection: insulation, sealing, and waterproofing. Ideal for high-voltage joints and terminations (11KV, 25KV, 36KV), it fills cable cores for insulation and protects lower voltage terminations (LV and MV) by sealing sharp edges and voids, ensuring complete environmental protection.

Applications

Reinforcement in heat shrink-sealed areas.

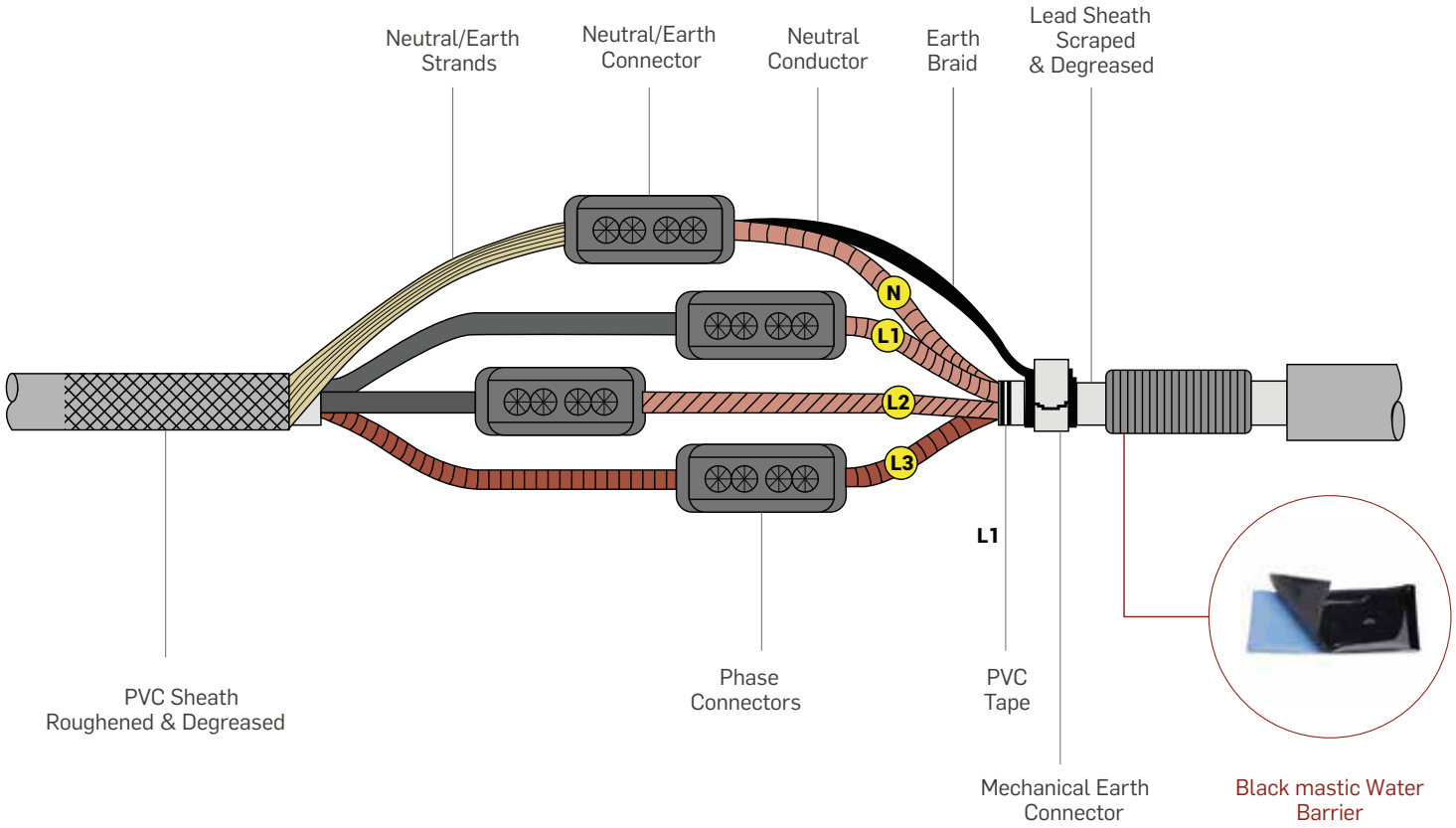
Earth Wire connection waterproof.



RRU Connection Waterproof.

Macro station and special application.

Application in Cable Joints Kit



Features

- **Versatile:** Easily molds to irregular shapes, even in cold conditions.
- **Durable:** Resists harsh environments: saltwater, ozone, oil, chemicals.
- **Protective:** Adheres strongly to various surfaces, blocking moisture.

Elevate insulation with Centroid Polymer Technologies. Black self-amalgamating mastic tape, various sizes.

THICKNESS	WIDTH	LENGTH (ROLLS)	LENGTH (STRIPES)
0.5 mm upto 10 mm	5 mm upto 150 mm	0.3 m upto 45 m	100 mm 200 mm 500 mm 10000 mm

These are supplied between two layers of Silicone paper.

Technical characteristics of black insulating self-amalgamating Mastic Tape

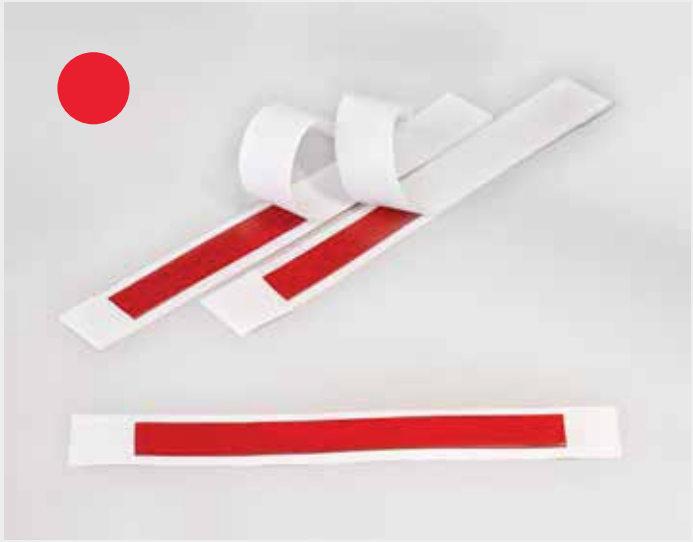
SIZE		
Width	**Dimensional**	**5mm to 150mm**
Thickness	**Dimensional**	**0.5mm to 150mm**
Length	**Dimensional**	**As per Requirement**

SL.NO.	TEST DESCRIPTION	TEST STANDARD	SPECIFICATIONS	OBSERVED VALUE
1	Softening Point	ASTM D-36	100 °C (min)	110 C
2	Water absorption R.T. for 24 hrs.		0.5% (max)	0.30%
3	Volume resistivity	ASTM D 1373	1x10^10 Ohm-cm (min)	4x10^14 Ohm-cm
4	Needle penetration	ASTM D-5	70 to 130 Unit/10sec	90
5	Density	ASTM D 792	1.5 to 1.65 G/cc	1.52
6	Brittleness temperature	ASTM D 2137	-30 °C (min)	Pass
7	Service Temp. Range		(-)4.4 °C to 93.3 °C	Pass
8	Penetration 300 gram cone	ASTM D217	80 to 95	80
9	Elongation	ASTM C908	400% min.	500%
10	Adhesive Tensile Strength	ASTM C907	1.26 kg/cm^2 to 1.40 kg/cm^2 (min)	1.50 kg/cm^2
11	Peel Adhesion	ASTM D3330	>0.6kg/cm2	0.8kg/cm2
12	Water Penetration	ASTM W2140	No water penetration	Pass

RED ANTI TRACKING SEALING MASTIC

Product Code	CENFUSE ATM0101

02



This red, non-tracking sealant is a robust solution for MV terminations. It offers excellent adhesion, insulation, and water resistance, ensuring a reliable seal in irregular voids.

APPLICATIONS

Enhanced Electrical Insulation
Our material provides superior insulation, sealing, andwaterproofing for high- voltage cable joints and terminations (11KV, 25KV, and 36KV).

Reliable Sealing Solutions
Ensure secure, track-resistant seals for power cable terminations and joints, compatible with heat shrink and cold shrink applications.

FEATURES

Leakproof & Moisture- Resistant
Prevents leaks and moisture damage. Durable & Discreet: Resilient and untraceable.

Versatile & Reliable
Performs in extreme temperatures (-20°C to 120°C), adheres strongly, and is easy to install.

Technical characteristics of red anti tracking Sealing Mastic

PHYSICAL PROPERTIES			
Size			
Width	**Dimensional**	**5mm to 150mm**	**Custom Sizes available**
Thickness	**Dimensional**	**0.5mm to 10mm**	**Custom Sizes available**
Length	**Dimensional**	**As per Requirement**	

SL.NO.	TEST DESCRIPTION	TEST STANDARD	SPECIFICATIONS	OBSERVED VALUE
1	Needle Penetration	ASTM D 217	50-100 unit	70
2	Softening point	ASTM D 36	90 oC (min)	98
3	“Low Temp. Flexibility(4 hr at –20°C)”	ASTM C 765	No crack	Pass
4	Physical Form Mechanical Properties		In roll form and strip form with release paper on both sides	As per packing Standards
5	Adhesive Tensile Strength	ASTM C 907	3 Kg / sq. cm^2	3.5 kg/cm.sq
6	Elongation / Stretch test	ASTM C 908	Min elongation 300%	500%
7	Tack Test	ASTM D 3121	<18 cm	12
8	Peel Adhesion Electrical Properties	ASTM D 3330	>0.2kg/cm2	0.3kg/cm2
9	Volume resistivity	ASTM D 257	1 x 10^12 ohm cm	5x10^14 ohm cm
10	Dielectric const at 50 HZ, 500 V	ASTM D 150	<4	2.8
11	Dielectric Strength Corrosion Resistance	ASTM D 149	min 8/mm	10kv/mm
12	168 hr at 90°C on Al conductor	ASTM D 150	No chemical interaction / corrosion.	Pass

BUTYL MASTIC TAPE TELECOMMUNICATION WEATHERPROOFING KIT FOR CONNECTORS & ANTENNAS

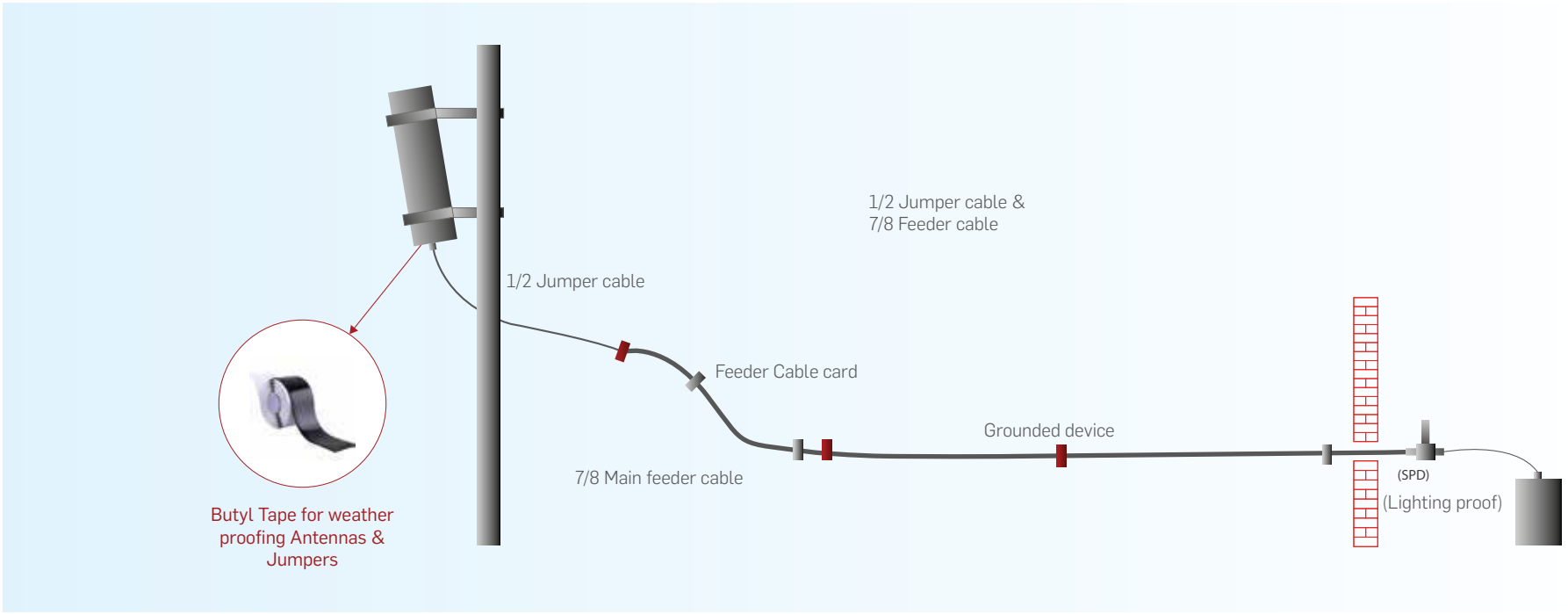
Product Code	CENFUSE WPT0202

03

This butyl rubber tape ensures superior adhesion and a permanent watertight seal. It offers excellent corrosion resistance, protecting copper and various cable sheathing materials. Versatile and reliable, it seals water leaks in all telecom equipment and cable connectors, performing flawlessly in temperatures up to 90°C with an overload tolerance of 130°C.

Applications

Centroid Polymer's Butyl Rubber Tape is a reliable weatherproof solution for outdoor coaxial cable connections. It shields connections from water and corrosion, preventing signal disruption. Ideal for situations without sealing boots, like fly lead connections to antennas or amplifiers, or direct application over cable splices.



Technical Characteristics of Weather Proofing Mastic Tape

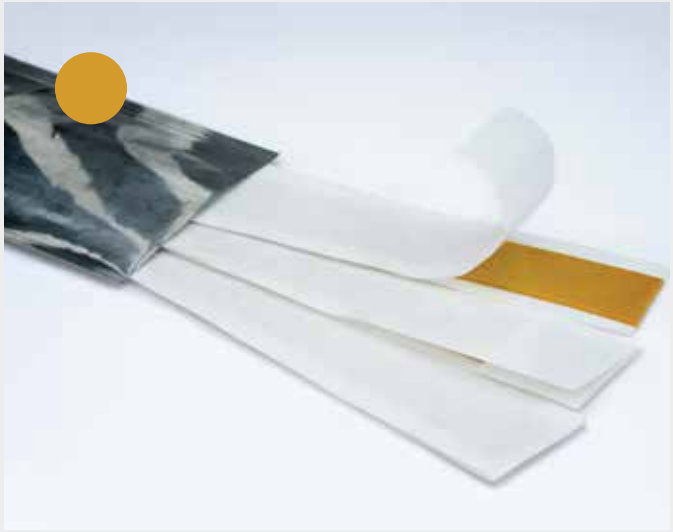
Size		
Width	**Dimensional**	**10mm to 150mm**
Thickness	**Dimensional**	**1 to 3 mm**
Length	**Dimensional**	**As per Requirement**

SL.NO.	TEST DESCRIPTION	TEST STANDARD	SPECIFICATIONS	OBSERVED VALUE
1	Softening Point	ASTM D-36	100 °C (min)	110 C
2	Water absorption R.T. for 24 hrs.		0.5% (max)	0.25%
3	Needle penetration	ASTM D-5	70 to 130 Unit/10sec	90
4	Density	ASTM D 792	1.5 to 1.65 G/cc	1.48
5	Brittleness temperature	ASTM D 2137	-30 °C (min)	Pass
6	Service Temp. Range		(-)4.4 °C to 93.3 °C	Pass
7	Elongation	ASTM C908	500% min.	600%
8	Adhesive Tensile Strength	ASTM C907	1.26 kg/cm^2 to 1.40 kg/cm^2 (min)	1.50 kg/cm^2
9	Peel Adhesion	ASTM D3330	>0.5kg/cm2	0.7kg/cm2
10	Water Penetration	ASTM W2140	No water penetration	Pass

STRESS CONTROL MASTIC

Product Code	CENFUSE SCM0101

04

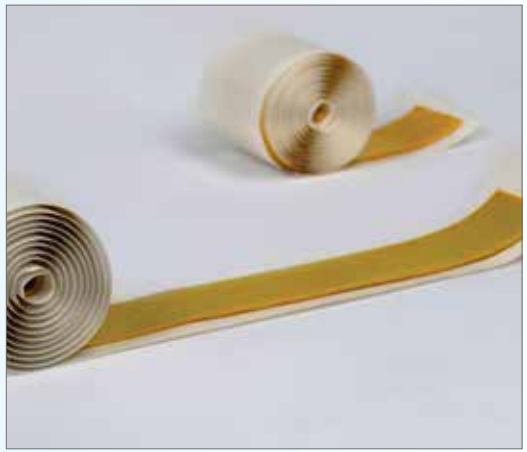


Stress control mastic safeguards power cables. Applied to MV cable joints and terminations, it balances the electrical field, reducing stress. Its water and humidity resistance fills voids and irregular shapes, ensuring a reliable and protected cable connection.

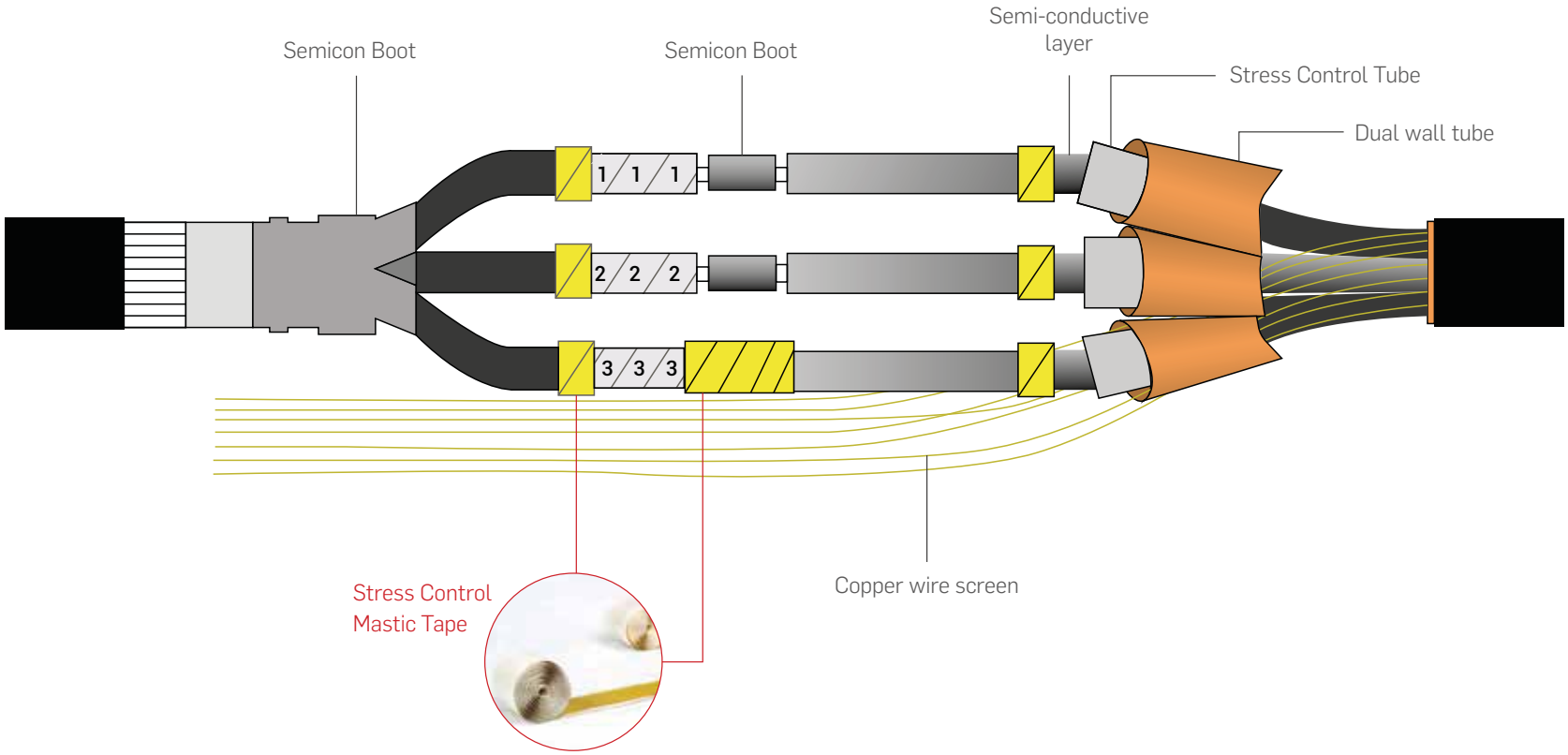
APPLICATIONS

Prevents Electrical Stress
Stress control mastic safeguards MV cable assemblies by preventing electrical stress buildup at connection points.

Versatile & Reliable
Ensure secure, track-resistant
Its exceptional stress control and self-adhesion make it ideal for both heat shrink and cold shrink applications. It also tackles electrical stress, fills gaps, and resists water and humidity.



Application in Cable Joints Kit



Technical Characteristics of Stress Control Mastic

Physical Properties		
Size		
Width	**Dimensional**	**5mm to 150mm**
Thickness	**Dimensional**	**0.5mm to 10mm**
Length	**Dimensional**	**As per Requirement**

SL.NO.	TEST DESCRIPTION	TEST STANDARD	SPECIFICATIONS	OBSERVED VALUE
1	Needle Penetration	ASTM D 217	25 unit (min)	35
2	Softening point	ASTM D 36	100 oC (min)	105 oC
3	“Low Temp. Flexibility (4 hr at –20°C)”	ASTM C 765	No crack	Pass
4	Physical Form Mechanical Properties		In roll form and strip form with release paper on both sides	
5	Adhesive Tensile Strength	ASTM C 907	1.5 Kg / cm2 (min)	1.8 kg/cm2
6	Elongation / Stretch test	ASTM C 908	400% min	700%
7	Tack Test	ASTM D 3121	<25 cm	22 cm
8	Peel Strength Electrical Properties	ASTM D 3330	0.1kg/cm2 min	0.18kg/cm2
9	Volume resistivity	ASTM D 257	1 x 10 9 ohm cm (min)	2x10 100 ohm cm
10	Dielectric const at 50 HZ,500 V	ASTM D 150	>15.0 (min)	17
11	Dielectric Strength Corrosion Resistance	ASTM D 149	7 MV/m (min)	8.5
12	168 hr at 90°C on Al conductor	ASTM D 150	No chemical interaction / corrosion.	Pass

BUTYL TAPE FOR ROOFING, WALLS, FAÇADES, AND CLADDING

Product Code	CENFUSE BLD1000

05

CENFUSE BLD1000 Butyl Tape is ideal for sealing metal roofs, walls, and non-exposed areas. It's designed for harsh environments, offering optimal sealing performance under tough conditions.

Adhesive Versatility

Sticks firmly to a wide range of surfaces, including metals, glass, concrete, plastics, and more.

Durable Performance

Maintains its integrity over time, resisting hardening, bleeding, and staining. Ideal for metal roofs, walls, and insulated metal panels (IMP) in various widths.

CENFUSE BLD1000 Butyl tape is designed for the metal building industry. It adheres strongly to clean, dry metal surfaces without hardening, bleeding, or staining. Under pressure, it conforms to surface imperfections, creating a tight seal against water, moisture, dust, and dirt. Ideal for sealing around windows, doors, roof vents, stacks, access doors, and other critical points on metal roofs.

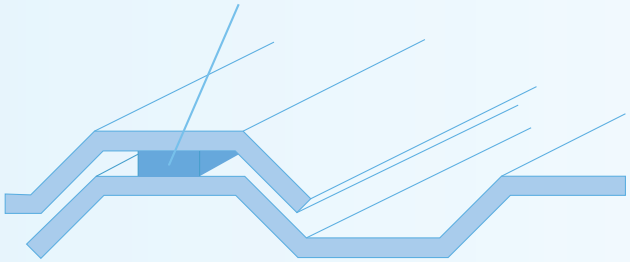
- **Strengthens roofs**
  Butyl tape enhances roof strength by over 40%, ensuring durability.
- **Material Savings**
  It permits lower roof pitches, reducing material usage for roofing projects.
- **Corrosion Prevention**
  Acts as a barrier against chemical reactions between galvanized sheets.
- **Reduces callbacks**
  Its superior sealing properties eliminate leaks, minimizing the need for repairs.
- **Wind Protection**
  Butyl tape bonds roof sheets, lowering wind damage risks.
- **Vibration Dampening**
  Excellent anti-vibration qualities provide additional protection for roofs.
- **Waterproofing**
  Effectively seals roof screws, preventing water intrusion.
- **Optimal Flashing Seals**
  Ensures superior sealing for roof flashings, enhancing overall integrity.
- **Gap sealing**
  Efficiently fills gaps between various roof materials, improving stability.
- **Long lifespan**
  With a durability exceeding 20 years, it offers long-lasting peace of mind.
- **Heat Resistance**
  Can withstand high temperatures up to 120°C without losing effectiveness.
- **Versatile Adhesion**
  Adheres well to diverse materials like metal, plastic, and concrete, making it a versatile choice for roofing solutions.
- **Accommodation for expansion**
  By absorbing the expansion and contraction of polycarbonate sheeting (seven times more than metal), butyl tape prevents the seal from breaking.

Technical Data

TEST DESCRIPTION	TEST STANDARD	TYPICAL RESULT
Specific Gravity	ASTM D 792	1.47
Density	ITW Lab	13.54 Lbs/Gal, 1.62 Kg/Liter
% Solids	ITW Lab	100%
Peel Adhesion Galvalume Anodized Aluminum Mill Finish Aluminum Polyvinylidene Fluoride PVC Plastisol Polyester Siliconized Polyester	AAMA 800 1/16"(0.158cm) thick	16 (2.8)/100 16 (2.8)/100 16 (2.8)/100 17 (2.8)/100 17 (2.8)/100 16 (2.8)/100 16 (2.8)/100
Tensile Ad.Strength PSI(kPA) % Cohesive Separation	ASTM C 907	20 (138) 95
Yield Strength PSI(kPA)	ASTM C 908	8 (55)
% Elongation	ASTM C 908	>1000
Water Resistance	AAMA 800	No Effects
Hardness (Shore 00)	AAMA 800	50-60
Cone Penetration (0.1mm) @77° F (25° C) , @120° F (48.8° C), @0° F (-17.7° C)	ASTM D 217 300g cone (5 Sec)	85-100 125-135 45-55
Application Temp. Range	ITW Lab	-5° F to 120° F (-20° C to 49° C)
Service Temp. Range	ITW Lab	-40° F to 200° F (-40°C to 93°C)
Color	Visual ITW Test	Light Grey
Weatherability QUV ,340A lamp 1000Hrs	ITW Lab	Excellent, no cracking, chalking, wash-off, flow
6" Static Water Pressure	ITW Lab	Pass - No Leakage
Water Penetration	ASTM E 1646	Pass - No Leakage
Shelf Life	18 mo. when stored at or <100° F (38°C)	

Butyl Tape is a double sided butyl based sealing tape. Butyl Tape is mostly used in the roofing industry as a seal between framing and roof claddings. Butyl Tape Butyl Tape will form a watertight seal against any moisture ingress. The tape is waterproof, cost effective, non toxic and requires no tools to apply.

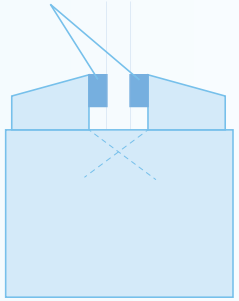
CENFUSE BLD1000



Roofing & Cladding

Along the edge and side laps of corrugated sheeting and around skylights.

CENFUSE BLD1000



Glazing

Non load bearing seal between frame and glass.

BUTYL TAPES FOR WATER TANKS & METAL GRAIN BINS

Product Code	CENFUSE TGS2000

06

CENFUSE TGS2000 is formulated ever-tacky, waterproof, high performance butyl tape. It is non-toxic and safe for use in contact with drinking water. It is soft, resilient and easily worked by hand; yet it adheres instantly to almost any normal commercial surface without being cleaned. It has excellent weathering characteristics while retaining adhesion and elasticity in both hot and cold environments.

Grain bins are used to store and manage grain, corn, and other crops and they are a major part of many farms and agricultural spaces. Leaking or broken grain bins that expose crops to water are terrible for anyone whose livelihood depends on healthy crops to sell. Our sealants are effective in protecting the contents of grain bins from the elements in any climate.

CENFUSE TGS2000 has outstanding webbing and elongation properties along with excellent adhesion to glass, plastic, polyethylene, galvanized, aluminum and aluminum-zinc coated steel. CENFUSE TGS2000 also has excellent adhesion to siliconized polyester, polyurethane and polyvinyl fluoride painted substrates. It is designed to seal exposed joints against infiltration of air, dust, water and pollutants.

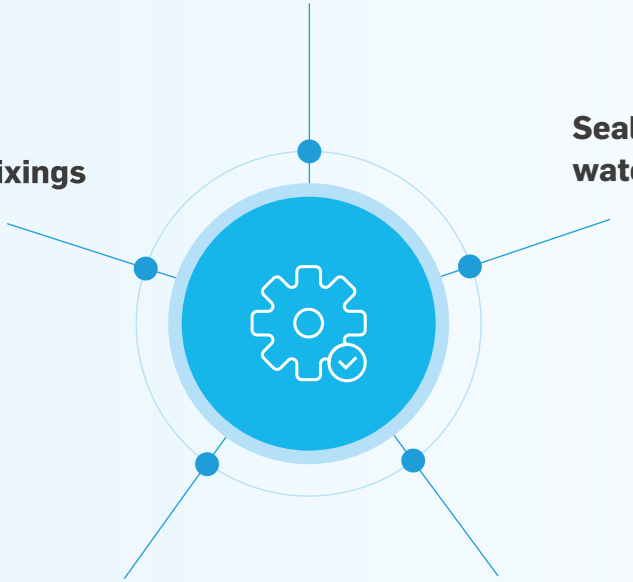
This material is manufactured in convenient ready-to-use tapes, beads and pads of various sizes.

Applications

Sealing flange joints in GRP sectional water tanks

Sealing around fixings

Sealing joints in potable water tanks (WRAS approved).



Sealing exterior lap joints of grain storage bins and sealing the base to the concrete pad.

It goes without saying that a 100% leak-free seal and total safety are fundamental in the construction of water tanks and pre-engineered grain bins

Features

1.Resistance to fungus / Mildew growth

2.Almost odorless

3.Paintable

4.Will not stain painted or unpainted surfaces

5.Waterproof

6.Safe for drinking water

Technical Data

TEST DESCRIPTION	TEST STANDARD	TYPICAL RESULT
Color	ASTM D1729	Grey
Odor		None.
Application Temperature		40°F to 120°F (4°C to 49°C)
Service Temperature		-70°F to 220°F (-57°C to 104°C)
Cone Penetration, 300 g	ASTM D217	@ -18°C ≥ 42 dmm @ 25°C ≤ 110 dmm @ 49°C ≤ 145 dmm
% Solids	ASTM C771	> 99% by weight
Specific Gravity	ASTM D297	1.75 ± 0.05 g/cm
Weight per Gallon		14.6 ± 0.5 pounds per gallon
Tensile Yield	ASTM C907	15 psi with cohesive failure
Flexibility	ASTM C765	Passes 3/8 -inch mandrel bend at -56°C
Weatherability	ASTM D750	No apparent change of physical properties after 1000-hours QUV exposure. Slight discoloration.
Water Resistance	60-days water immersion @ 48°C	Maintains adhesion to galvanized metal, aluminum-zinc coated steel and siliconized polyester painted surfaces.
Heat Stability	6-months @ 82°C	No hardening, crusting or softening of surface. No surface crazing after cooling to 24°C and bending over a 1/4 -inch mandrel.

Technical Data

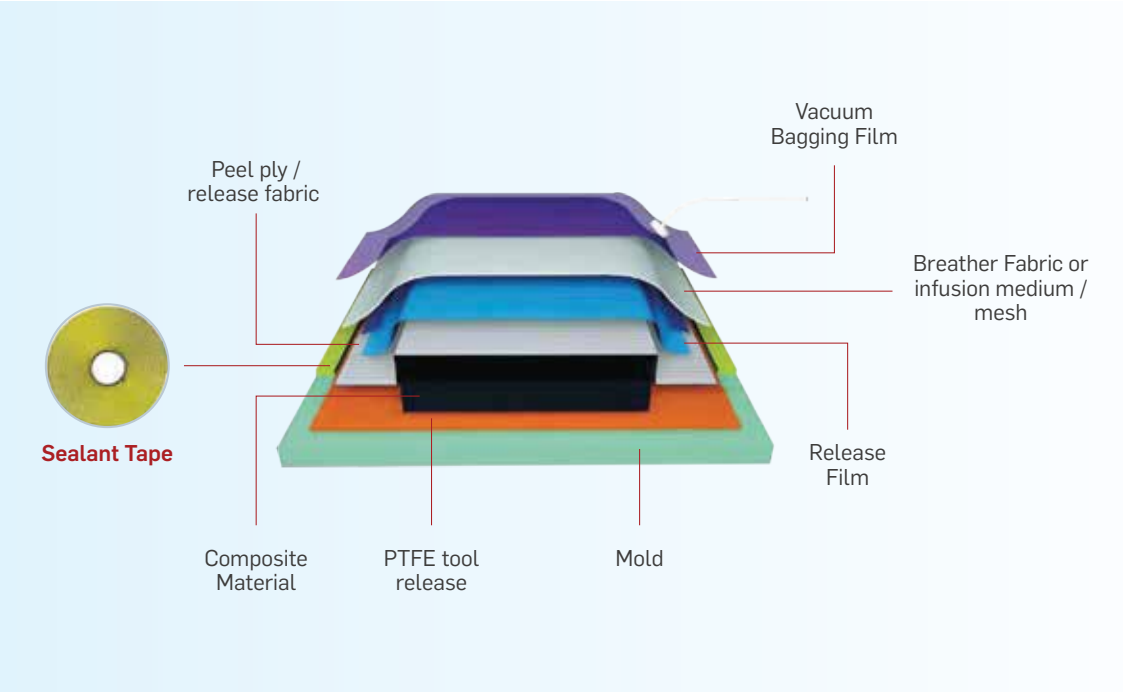
TEST DESCRIPTION	TEST STANDARD	TYPICAL RESULT
Vehicle Bleedout	AAMA 800-08 ASTM C772	21-days @ 25°C, no visible bleedout or migration. 14-days @ 82°C, no visible bleedout or migration. 21-days RS type sunlamp, no visible bleedout or migration.
Staining	ASTM D925, Method A – 7-days @ 79°C	No staining, no significant change in sealant color or its non-skinning characteristics. Will not cause crazing of plastics.
	ASTM D925, Method B – 7-days RS sunlamp @ 60°C	No staining, no significant change in sealant color or its non-skinning characteristics. Will not cause crazing of plastics.
Paintability		Paintable
Water Resistance	60-days water immersion @ 48°C	Maintains adhesion to galvanized metal, aluminum-zinc coated steel and siliconized polyester painted surfaces.
Chemical Resistance		Excellent resistance to ozone, water and alcohols. Good resistance to weak acids and bases. Fair resistance to ketones. Poor resistance to oils, aliphatic and aromatic solvents.
Paper Release		Release paper comes off sealer easily and clean at temperatures up to 70°C.
Shelf Life		Minimum 1-year when stored in the original container at normal warehouse temperatures.

VACCUM BAGGING SEALANT TAPE FOR COMPOSITES

Product Code	CENFUSE VHT0250

07

Centroid Polymer Technologies simplifies sealing in diverse manufacturing. Our vacuum bag sealant tapes handle various cure temperatures, from room temp to 400°F. These tapes create airtight seals, conforming to angles and patching leaks. Vacuum bagging, a popular technique, involves placing a wetted composite laminate under a vacuum. This compacts the laminate, removing excess resin for a stronger, more consistent product.



SEALANT TAPE - HIGH TEMPERATURE

Product Code	CENFUSE VHT0250

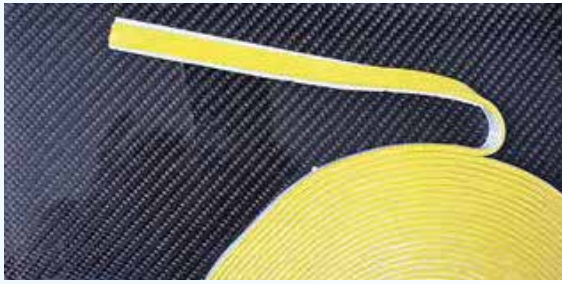
08

CENFUSE VHT0250 is a cost-effective vacuum bag sealant tape for wind turbine blades and aerospace. Designed for high-temperature environments, it adheres reliably to films and molds, ensuring easy removal post-curing.

FEATURES

Versatile & Reliable

Used by metal and composite manufacturers for oven and autoclave applications, these preform tapes seal 'bag to tool' and 'bag to bag' configurations.



Strong & Secure

Adheres strongly to various films and tools, creating a strong, airtight seal during curing.

Safe & Efficient

Releases easily from tool surfaces after curing, is safe to handle, and is heat- resistant, leaving minimal residue.

PROPERTIES	SPECIFICATION
Material Composition	Synthetic Butyl Rubber
Color	Yellow
Elongation at Break	400%
Maximum use temperature	410^0F (210^0C)
Shelf Life	12 month from date of manufacturing
Storage Condition	Must be stored on flat surface in original packing At room temperature

NOTES :
Clean Application: Apply tape to a clean, dry mold at room temperature.
Proper Storage: Store away from moisture, sunlight, and water

SEALANT TAPE - LOW TEMPERATURE

Product Code	CENFUSE VLT0180

09

Low-temp sealant tape is perfect for vacuum bagging small composite parts curing below 300°F. It adheres strongly to various films and surfaces like aluminum, steel, fiberglass, nickel, and graphite. Its strong cohesion ensures reliable sealing.

PROPERTIES	SPECIFICATION
Material Composition	Synthetic Butyl rubber
Color	Black
Elongation at Break	400%
Maximum use temperature	300°F (150°C)
Non Volatile Contents	99.8 % at 100°C for 3 hours
Shelf Life	2 Month from date of Manufacturing
Storage Condition	Must be stored between -25°C to 40°C and away From heat, water, moisture & direct Sun light.

Available in custom sizes and packaging. Contact us for details.

Highlights

Versatile & Reliable
Used by metal and composite manufacturers for oven and autoclave applications, these preform tapes seal ‘bag to tool’ and ‘bag to bag’ configurations.

Strong & Secure
Adheres strongly to various films and tools, creating a strong, airtight seal during curing.

Safe & Efficient
Releases easily from tool surfaces after curing, is safe to handle, and is heat-resistant, leaving minimal residue.

NOTES :
Clean Application: Apply tape to a clean, dry mould surface.
Safe Removal: Allow tooling to cool before removing tape.

BUTYL TAPE FOR AUTOMOTIVE & CARAVAN MOTOR-HOME PRODUCTS

Product Code	CENFUSE DAMP0101

10

Centroid Polymer Technologies is a leading manufacturer of high-quality butyl tape, including the CENFUSE DAMP0101 model, specifically designed for automotive applications. Our butyl tape, made from pre mium butyl rubber, meets stringent emission standards and offers multiple benefits: sealing, sound dampening, shock absorption, and protection. It's widely used in automotive and caravan motor-home products, including glass edge trim, interior trim, skylights, and body side windows. We offer a variety of tape models to meet different performance needs in automotive applications.

Fields of Application

Interior Soundproofing

Secure electric switches, fix vapour barriers,& soundproof plastic panels.

Component Installation

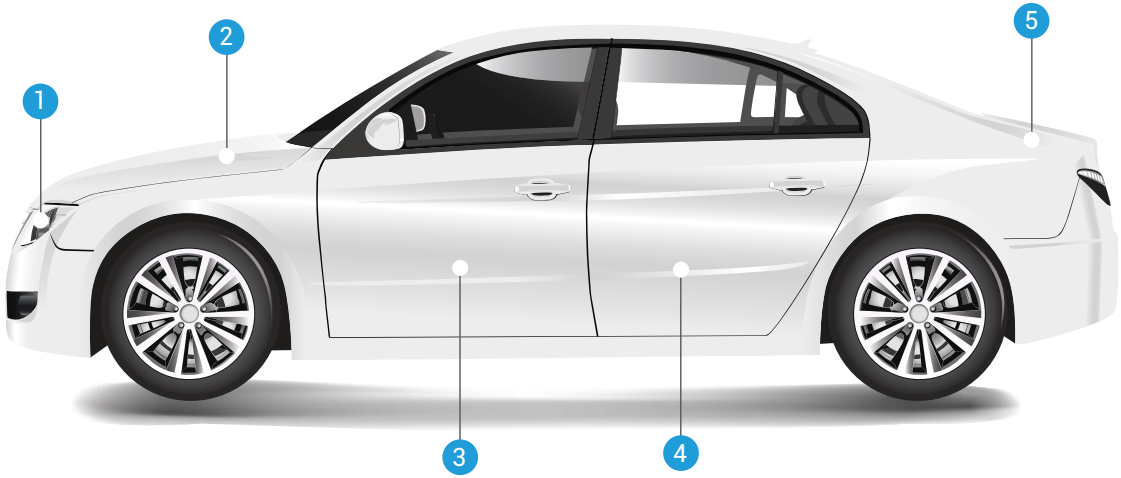
Mount speakers, install tweeters, and position subwoofers.

External Protection

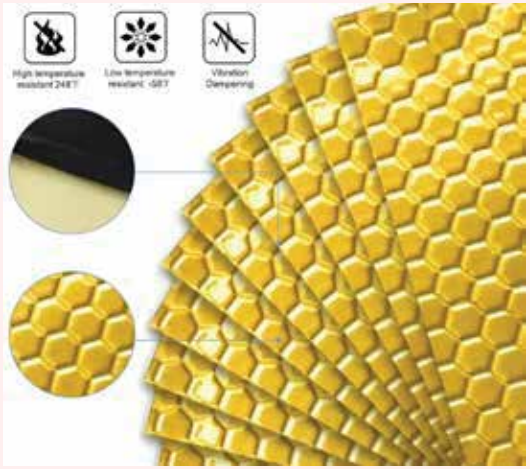
Protect headlight/ taillight lenses and install car glass fittings.

Structural Reinforcement

Attach plexiglass to speaker boxes, secure window welds, and reinforce speaker mounting screws.



1. Head Light
2. Hood
3. Front Door
4. Back Door
5. Trunk



Advantages

Durable & Reliable

Permanently liquid, highly weather and water-resistant, stable at high temperatures.

Cost-Effective Performance

High performance at a low cost.

Quality Assurance

Consistent quality through stringent quality control systems.

Safe & Eco-Friendly

Solvent-free, safe, pleasant smell, eco-friendly.

Versatile & Durable

Automotive Butyl Tape offers numerous advantages, including strong adhesion, extreme temperature resistance, UV resistance, chemical resistance, and easy installation.

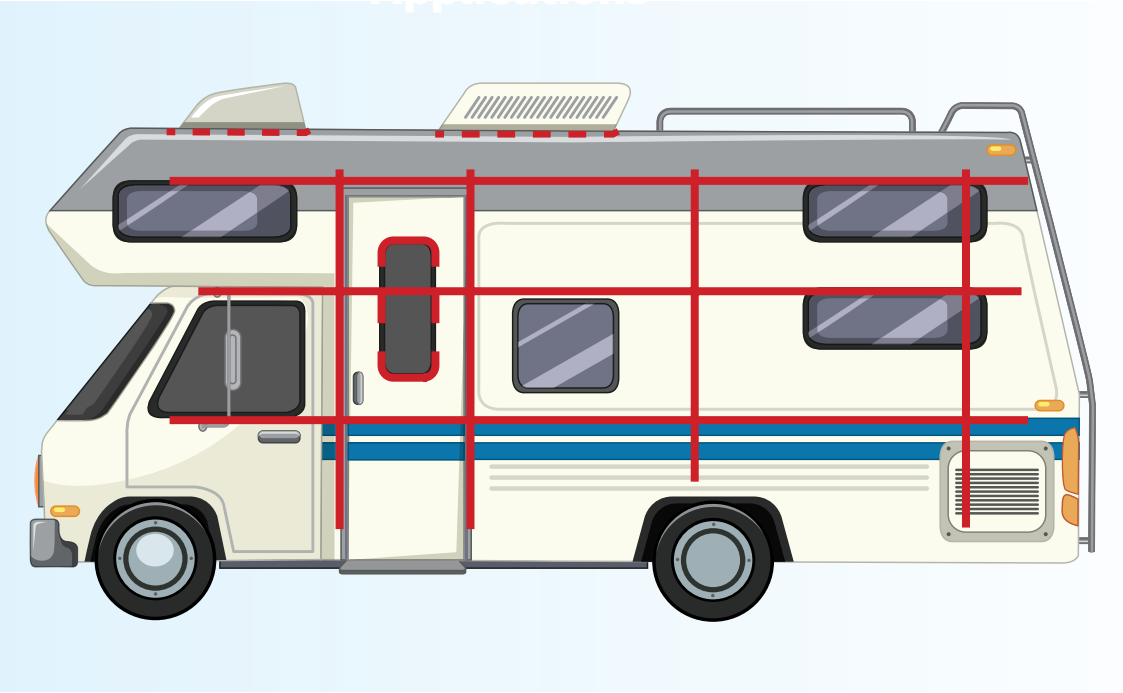
BUTYL TAPE APPLICATION AREAS FOR AUTOMOTIVE & CARAVAN MOTOR-HOME PRODUCTS

Product Code	CENFUSE DAMP0101

11

Application Fields

Centroid Polymer Technologies offers butyl tape solutions for both automotive and Caraven motorhome applications. Their Bead-seal butyl tape is a durable, elastic sealant designed to replace traditional silicone and polyurethane options. Ideal for caravans, it provides a quick and permanent seal between window or door frames and the sandwich panelling.



Technical Data

TESTED PROPERTIES	TEST STANDARD	PERFORMANCE
Shrinkage	ASTM C771	None
Cold Weather Flexibility	ASTM C 765	Flexible at -20 F
Service Temperature Range	ASTM C1257	-40 to 200 F.
Application Temperature	ASTM C603	20 to 120 F
Vehicle Migration	ASTM C772	No staining
VOC Content	ASTM D3960	0%
Yield Strength	ASTM C908	6psi, minimum
Solids Content	ASTM C681	100%
Hardness	ASTM C661	20 Durometer Shore A 77 F
Application Temperature		-5oC to 50oC
UV Stable		Yes
Operating Temperature		-40o C to 120o C
Elongation		+400 %
Impermeability		100%
Emissions / TVOC		Excellent Test results

BUTYL TAPE FOR HVAC & REFREGIRATION

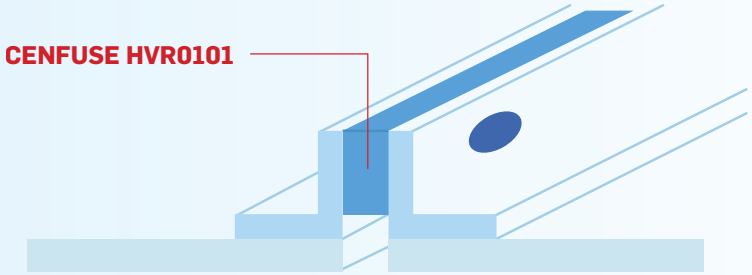
Product Code	CENFUSE HVR0101

12

Product Overview :

Centroid Polymer Technologies offers innovative solutions for HVAC and refrigera tion systems. Our CENFUSE HVR0101 butyl tape is a high-performance elastomeric sealant designed to withstand demanding conditions.

We provide a comprehensive range of adhesives, sealants, and acoustic products to optimize HVAC system performance. Our solutions ensure reliable sealing, strong bonding, and effective noise reduction.



Heating & Ventilation

Suitable for all
seams and flange work

Introducing our latest HVAC solution aluminium foil mastic sealant tape. This versatile tape offers instant water resistance, works in various temperatures, and is easy to apply with an IPG squeegee.

Highlights & Advantages

Durable & Resilient

Highly conformable, crack-resistant, and withstands harsh weather, UV rays, and extreme temperatures.

Hygienic & Safe

Mould and mildew resistant, LEED points generator.

Eco-Friendly

Engineered to resist corrosion, noise, and heat without harmful emissions.

Instant, Waterproof Seal

Provides a long-lasting, watertight seal.

Easy to Use

Quick and easy to tear.

BUTYL TAPE FOR PIPE WRAP

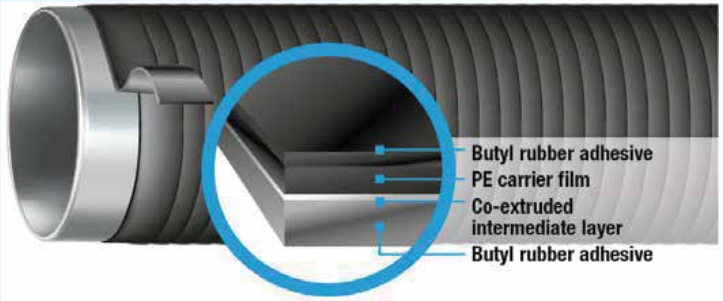
Product Code	CENFUSE PWT1000

13

Product Description :

Centroid Polymer Technologies Butyl™ is a high-performance pipe wrap for wastewater systems. It features a polymer-modified butyl layer bonded to a strong polyethylene backing. The butyl layer is shielded by a removable release paper. This wrap offers excellent cathodic protection and superior corrosion resistance, thanks to its durable butyl adhesive and TPO facer or silicone liner.

Implementation

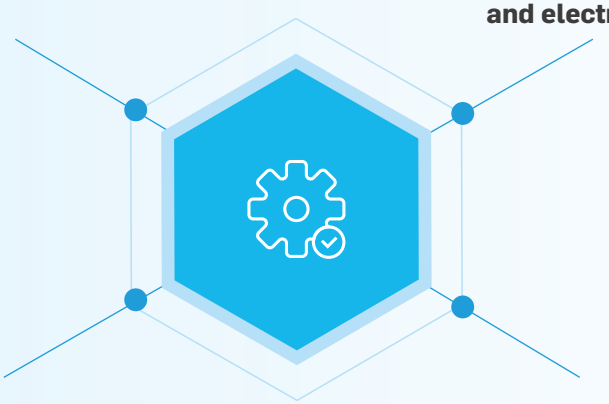


Apply to clean, dry surfaces. Light lubricant on unpainted metal is okay. Press firmly on one surface, remove the paper backing, and press onto the second surface. Dispose of the paper liner responsibly.

Highlights

Ready-to-use.
Easy application.

Durable & Resistant.
Excellent adhesion, chemical resistance, tear resistance, and electrical insulation.



Self-Healing. Self-repairing properties for long-lasting performance.

Efficient & Reliable.
Quick-bonding overlap and accurate identification for simplified maintenance.

Technical Data

TEST PROPERTIES	TEST STANDARD	TEST RESULTS (ENGLISH / METRIC)
Color		
Tensile Strength	ASTM-D-882	200 psi/90.71 kg
Elongation	ASTM-D-882	300%
Moisture Vapor Transmission	ASTM-E-96B	0.4 (grains/H x ft2)/ 0.2 (grains/H x M2)
Puncture Resistance	ASTM-E-154	50 psi/344 kPa
Burst Strength	ASTM-D-751	Good
Cathodic Disbondment	ASTM-G8-96	Pass
Dielectric Strength	ASTM-D-149	1 Thickness > 15,000 volts
Adhesion to Primed Surface	ASTM-D-1000-A	Excellent
Adhesion to Polyethylene	ASTM-D-1000-A	
Impact Resistance	ASTM-G-14	
Volume Resistivity	ASTM-D-257-14	Good
Softening Point	ASTM-D-903	250°F Minimum/121°C
Installation Temperature		-10°F to 120°F/-23 to 48.9°C
In-Service Temperature		-45°F to 300°F/-42 to 149°C
Warranty		10 Years
Solid		≥95%
Specific Gravity (G/Cm3)		1.35±0.1
Application Temperature Range		15oC-50oC
Viscosity		30oC ≥1800dpa.s / 30oC 900-1500dpa.s / 20oC 1300-1900dpa.s
Low Temperature Resistance		Material to maintain a good flexibility, binding force
Sag		No
Insert Force,N		38°C,≤6 / 21°C,≤8 / 4°C,≤14 / -18°C,≤100
Aging Test		The material should not dry and should not flow fromshrinkage of the cracks
Rohs		Pass

BEDDING DECK FOR BOATS AND SHIPS

Product Code	CENFUSE MSB020

14

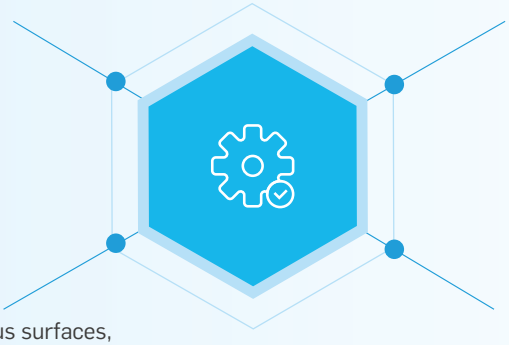
Butyl Sealant Tape: A Marine Essential

Butyl sealant tape is a reliable choice for marine construction and repair. It provides a water-resistant, durable seal for seams, joints, and gaps in hulls, decks, and windows. For fiberglass boat restoration, butyl mastic tape is ideal for sealing deck hardware. It's a practical, long-lasting, and cost-effective solution to prevent water ingress.

Features

Leak-Proof Protection:
Flexibility prevents leaks by accommodating movement in deck hardware.

Durable Flexibility:
Retains original state without drying out, ensuring long-lasting performance.

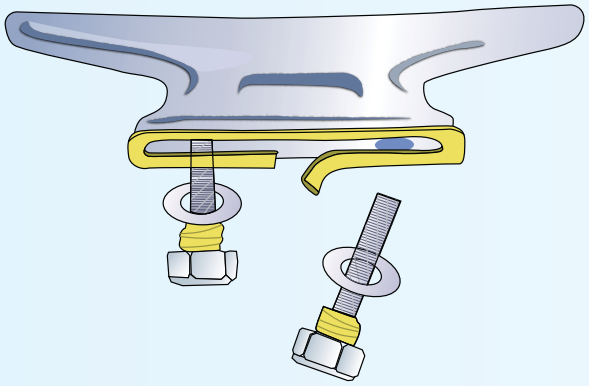


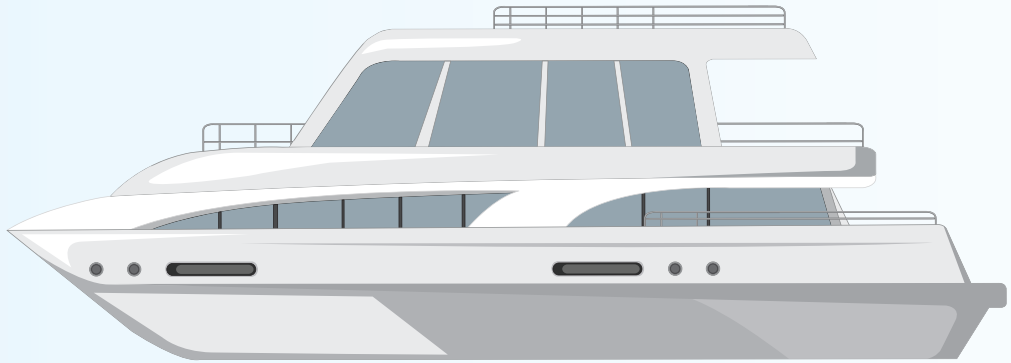
Strong Adhesion:
Bonds well to various surfaces, eliminating the need for glue in through-bolted hardware.

Superior Flexibility:
More flexible than polyurethane or polysulfide sealants.

FOR A WATERPROOF JOINT WHEN BEDDING, FIXING & SECURING DECK FITTINGS

Use wherever a waterproof seal is required





MACHINES

CENTROID
Polymer Technologies

Contact
Centroid Polymer
Technologies, KINFRA ITTP
Plot No. P32(4) & (5), Kanjikode
Palakkad, Kerala 678621, India

M : +91 99462 31123
+91 62827 16198
+91 95678 17972

info@centroidpolymer.com
akhil@centroidpolymer.com

www.centroidpolymer.com